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TITLE: USED AMOUNT DETECTOR FOR WELDING WIRE
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INVENTOR-INFORMATION:

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ASSIGNEE-INFORMATION:

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MITSUBISHI ELECTRIC CORP	N/A

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ABSTRACT:

PURPOSE: To stabilize welding accurately and positively capturing residue by detecting used amount of a welding wire from revolutions of a winding frame.

CONSTITUTION: A pulse generator 26 outputs a pulse signal each time a detector 24 detects a projection 22, where the cycle T1 is the time for

one rotation of a winding frame 60. A timer circuit 28 starts to measure time by a synchronous signal of the generator 26 and completes the operation of a time piece after the set time T2 of a variable time setting device 30. A time comparator 32 compares the cycle T1 and the time T2 and a welding wire 12 is continuously pulled out when $T1 > T2$. When the relation turns to $T1 < T2$, a signal of the circuit 32 activates an alarm circuits 34 to forcibly stop a motor 16 and alarming or the like is performed with a buzzer. The time T2 can be adjusted freely with the setting device 30 while the residue of the wire 12 for actuating a circuit 34 can be set as desired thereby accurate and positive sensing of the residue and the used amount of the wire 12 can be performed.

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